HEC-RAS-4.1.0_1.0.7 Install Instructions

Release Date: 4/3/2015
Release Type: Scheduled
HEC-RAS Model Engine: 4.1.0
HEC-RAS FEWS Adapter: 1.0.7
CHPS Build 5.1.1
Build and Package Date: 2/4/2015
Tested against FEWS Binary: 2014.02 build 53736, patched from 50595

Introduction

These instructions describe the installation procedure to update HEC-RAS. It is assumed that the RFC will be updated to at FEWS 2014.02 build 53736, patched from 50595 and currently has HEC-RAS-4.1.0_1.0.6. If you have any questions during the installation, please contact the Support Group. The install instructions will guide you through the following steps:

1. Standalone installation and testing
2. OC and FSS installation and testing on a Dev/Test system
3. OC and FSS installation and testing on an Operational system

Note: the instructions for installing on a Dev/Test and Operational system are essentially the same except for the machines you are installing on.

Commands that have to be entered will be displayed in a fixed width font like this:

```
$ ls –l /awips/chps_share/
```

Installation Instructions

1. Extract the HEC-RAS-4.1.0_1.0.7 package

1.1. Log in to CHPS1 as user fews. Navigate to the CHPS- directory.

1.1.1. `$ cd /awips/chps_share/install/Apr2015/CHPS-5.1.1/`

1.2. Extract the package.

1.2.1. `$ tar –xvpf hecras.4.1.0_1.0.7.20150204.tar.gz –C .`

1.3. Check the HEC-RAS version files. You will see two lines. The first being the engine version (4.1.0), and the second being the FEWS adapter (1.0.7). Stop installation and contact the Support Group if version differs.

1.3.1. `$ cd hecras_4.1.0_1.0.7/hec/hecras/bin`

1.3.2. `$ cat VER*`

1.4. From here on the path /awips/chps_share/install/Apr2015/CHPS-5.1.1/hecras_4.1.0_1.0.7 will be referred to as <4.1.0_1.0.7>.

1.5. Once complete, you may move onto standalone installation and testing.

1.6. Log in to either your Dev/Test system as user fews.
1.7. Create an up to date Standalone client for testing.
1.8. Make a link to point to the downloaded software inside the SA's Models directory. Edit the SA global properties file to point HECRASBINDIR to the bin.
   1.8.1. `$ cd /awips/chps_share/sa/<user>/<new standalone>/Models/hec/hecras/`
   1.8.2. `$ rm bin`
   1.8.3. `$ ln –s <4.1.0_1.0.7>/hec/hecras/bin bin`
1.9. Test to make sure all workflows complete as expected. Raise any issues with the Support Group through FogBugz. You may move onto the next step once satisfied with Standalone testing.

2. *Operator Client Installation and Testing*

NOTE: These instructions will walk you through installation and testing on both a Dev/Test system and an Operational system. Perform these actions on your Dev/Test system first.

2.1. Log in to either your Dev/Test or Operational system as user fews. Suspend MC-MC synchronization through the admin interfact on MC00 and MC01 to avoid unwanted propagation of data.
2.2. Check the current HEC-RAS version files. You will see two lines. The first being the engine version (4.1.0), and the second being the FEWS adapter (1.0.6).
   2.2.1. `$ cd /awips/chps_share/hec/hecras/bin`
   2.2.2. `$ cat VER*`
2.3. Make a backup of the current HEC-RAS files and install the new bin. Edit the OC global properties file to point HECRASBINDIR to the bin.
   2.3.1. `$ mv bin bin_4.1.0_1.0.6`
   2.3.2. `$ cp –dR <4.1.0_1.0.7>/hec/hecras/bin .`
2.4. Test to make sure all workflows complete as expected. Raise any issues with the Support Group through FogBugz. Restart MC-MC synchronization and install on your FSS once satisfied with OC testing.

3. *FEWS Shell Installation and Testing*

NOTE: These instructions will walk you through installation and testing on both a Dev/Test system and a FSS. Perform these actions on your Dev/Test system first.

3.1. Log in to either your Dev/Test or Operational system as user fews.
3.2. Stop the FSSs.
   3.2.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
   (?? is replaced with the 2 letter RFC acronym, e.g., ne)
   3.2.2. `$ ./mcproxy.sh stop`
3.3. Repeat step 3.2 for each FSS instance (FSS01, etc).
3.4. Check the current HEC-RAS version files. You will see two lines. The first being the engine version (4.1.0), and the second being the FEWS adapter (1.0.6).
   3.4.1. `$ cd /awips/chps_local/hec/hecras/bin`
   3.4.2. `$ cat VER*`

3.5. Make a backup of the current HEC-RAS files and install the new bin. Edit the FSS global properties file to point HECRASBINDIR to the bin.

3.5.1. `$ mv bin bin_4.1.0_1.0.6`

3.5.2. `$ cp –dR <4.1.0_1.0.7>/hec/hecras/bin .`

3.6. Start the FSSs.

3.6.1. `$ cd /awips/chps_local/fss/??rfc/FSS00/mcproxy`
(?? is replaced with the 2 letter RFC acronym, e.g., ne)

3.6.2. `$ ./mcproxy.sh start`

3.7. Repeat step 3.4 for each FSS instance (FSS01, etc).

3.8. Test to make sure all workflows complete as expected. Raise any issues with the Support Group through FogBugz.

4. Repeat Steps 2 and 3 on your Operational System if the OC and FSS Runs are Correct

Rolling Back an HEC-RAS Release

In the case where the OHD release needs to be rolled back to a previous version, restore links and references in your SA global properties to the previous release (i.e. bin_4.1.0_1.0.6).